



# Tack & Bond strength

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# Overview

- Specification requirements and VDOT guidelines for tack materials appear in Section 210 of the R&B specifications and VDOT's Manual of Instructions.
- VDOT tests emulsion and non-track tack samples:
  - from the manufacturer to be originally placed on the approved list
  - and then once-a-month thereafter to ensure material quality.
- *After that.....*















# Goal

**Improve the quality and service life of asphalt tack materials and the bonding between asphalt pavement layers.**

# What will we do?

## Review :

1. VDOT specifications,
2. VDOT Manual of Instructions, and
3. Industry best practices to define items of needed improvement for each of **3 key areas**:



## Materials manufacturing, testing, and reporting requirements in the VAAP:

**Are we specifying the right materials?**

## Materials shipping and handling

**Are we handling the right materials properly?**

**What are the industry best practices & how do we ensure they are implemented?**



## Material placement in the field & bond strength

**Are we handling and placing the material in a way that ensures sufficient bond strength?**

**Does Virginia need to adopt an end-result bond strength specification?**

# Questions?